

Preliminary Structural Project Report

Structure: C-191; SR-302 Entrance to Rockport Park



Project Manager: Ritchie Taylor

Project Number: BRF-0302(3)0

PIN number: 3027

CID number:

FY: 2008

UDOT

Structures Division

Region 2

Prepared by

Boyd Humpherys

Structure Designer: Horrocks

REPORT SUMMARY

Scope of Project:

1. Purpose of Report

This report presents a conceptual overview of a project to perform bridge rehabilitation to bridge C-191 on SR –302, entrance to Rockport Park. It is intended to convey the need, scope, schedule, budget, and quality control process for the project.

2. Project Information

Region: 2 **Route No:** SR-302 **Date:** January 2005

Project Name: Bridge Rehabilitation for C-191 on SR-302 **R.P.:** 0.18

Project Number: BRF-0302(3)0 **PIN:** 3027 **CID:** xxxxxx

Project Design: Bridge: UDOT Structures Division;
Roadway: Region 2 Preconstruction

Project Mgr: Region 2

3. Plan:

This project is intended to provide “*rehabilitation treatments*” to extend the life of the bridge.

4. Work Items to be Completed:

The scope of this project is to replace the existing bridge deck and superstructure including the following:

- Replace existing superstructure with modular prefabricated superstructure

5. Work Items to be Deferred:

Roadway and safety items beyond what is related to the bridge replacement will not be included.

6. Design Exceptions:

There is no approach guardrail for the bridge.

7. Maintenance Considerations:

Region 2 Maintenance Station 2436 should be included in the concept development.

8. Construction Considerations:

Traffic control could consist of shutting down the entire bridge. This would require the use of message boards and a detour route. Winter construction should also be considered. Coordination with the Rockport State Park should be mandatory. Care should be taken not do damage utility line on the south side of the bridge. It is recommended that the work be completed as soon as possible so the inclusion of A+B, Limitations of Operations and other specifications should be considered. River flows and possible environmental impacts need to be considered.

9. Risk Analysis: (None anticipated at this time)

10. Development Process:

New or Major Reconstruction	<u> x </u>
Rehabilitation	<u> </u>
Preservation	<u> </u>

Schedule of Project:

To get the best quality and bid prices, it is expected that this project be advertised no later than April 30, 2008. Design should take not longer than one month. Construction should be completed in the summer season. A tentative schedule is:

Begin Design Phase	Fall/Winter 2007
Advertisement Date	Spring 2008
Begin of Construction	Spring/Summer 2008
Completion of Construction	Summer/Fall 2008

Budget of Project:

1. **Funding Source:** **FY 2008 BR Funds**

2. **Amount Programmed:** **\$ 500,000**

3. **Cost Estimate:** **\$ 500,000**

- Remove and replace girders; price was calculated using \$1.65/lb of 53200 lb. of structural steel.
- The asphalt pavement is the approach roadway on each side of the bridge.

<i>C-191 SR-302 Entrance to Rockport Park</i>			
Item	Quantity	Unit	Total Cost
Remove/Replace Deck	1800	S.F.	
Remove/Replace Girders	1	Lump	
Remove/Replace Asphalt Pavement (roadway)	10000	S.F.	
Polymer Overlay	1800	S.F.	
Approach Guardrail	100	L.F.	
Mobilization	1	Lump	
Traffic Control	1	Lump	
Pavement Marking Paint	1	Lump	
Bridge Subtotal			
30% PE/CE			
Contingency	1	Lump	
Bridge Total			
Inflation Rate 4% Over 3 Years			
Total Project Costs			\$500,000

Cost Revised November 29, 2005 Todd, Dave, Danny

LOCATION MAP

